## IN THE CLAIMS

The following is a listing of the claims of the present application:

- 1. (Currently Amended) An amplifier, comprising:
- a first amplifying stage comprising a common-base transistor; and
- a second amplifying stage, coupled to the first amplifying stage, comprising a cascode transistor pair; and

at least one matching network comprising a series transmission line and shunt stub.

- 2. (Original) The amplifier of claim 1, further comprising an input matching network coupled between an input terminal associated with the amplifier and the common-base transistor.
- 3. (Original) The amplifier of claim 1, further comprising an inter-stage matching network coupled between the common-base transistor and the cascode transistor pair.
- 4. (Original) The amplifier of claim 1, further comprising an output matching network coupled between an output terminal associated with the amplifier and the cascode transistor pair.
  - 5. (Canceled).
- 6. (Original) The amplifier of claim 1, wherein the first stage and the second stage are implemented in accordance with a silicon-based technology.
- 7. (Original) The amplifier of claim 1, wherein the first stage and the second stage are implemented in accordance with a silicon germanium technology.
  - 8. (Original) The amplifier of claim 1, wherein the amplifier is a low-noise amplifier.
- 9. (Original) The amplifier of claim 8, wherein the low-noise amplifier is implemented in accordance with a millimeter-wave communications receiver.

- 10. (Original) The amplifier of claim 1, wherein the amplifier is a unilateral amplifier.
- 11. (Original) The amplifier of claim 1, wherein a current associated with the second stage is adjustable.
  - 12. (Currently Amended) Apparatus for amplifying an input signal, comprising:
- a low-noise amplifier operative to amplify the input signal, wherein the low-noise amplifier is implemented in accordance with a silicon-based technology and the input signal is a millimeter-wave signal, and further wherein the low-noise amplifier comprises at least one matching network comprising a series transmission line and shunt stub.
  - 13. (Original) The apparatus of claim 12, wherein the low-noise amplifier comprises:
  - a first amplifying stage comprising a common-base transistor; and
- a second amplifying stage, coupled to the first amplifying stage, comprising a cascode transistor pair.
- 14. (Currently Amended) The apparatus of claim 13, wherein the low-noise amplifier further comprises an input at least one matching network is coupled between an input terminal associated with the low-noise amplifier and the common-base transistor.
- 15. (Currently Amended) The apparatus of claim 13, wherein the low-noise amplifier further comprises an inter-stage at least one matching network is coupled between the common-base transistor and the cascode transistor pair.
- 16. (Currently Amended) The apparatus of claim 13, wherein the low-noise amplifier further comprises an output at least one matching network is coupled between an output terminal associated with the low-noise amplifier and the cascode transistor pair.
  - 17. (Canceled).

- 18. (Original) The apparatus of claim 12, wherein the low-noise amplifier is implemented in accordance with a silicon germanium technology.
- 19. (Currently Amended) Apparatus for amplifying an input signal, comprising: an amplifier operative to amplify the input signal, wherein the amplifier is implemented in accordance with a silicon-based technology and comprises at least one matching network comprising at least one shunt-stub microstrip transmission line a series transmission line and shunt stub.
  - 20. (Currently Amended) A communications receiver, comprising: a low-noise amplifier comprising:
- a first amplifying stage comprising a common-base transistor; and
  a second amplifying stage, coupled to the first amplifying stage, comprising a cascode
  transistor pair; and

at least one matching network comprising a series transmission line and shunt stub.